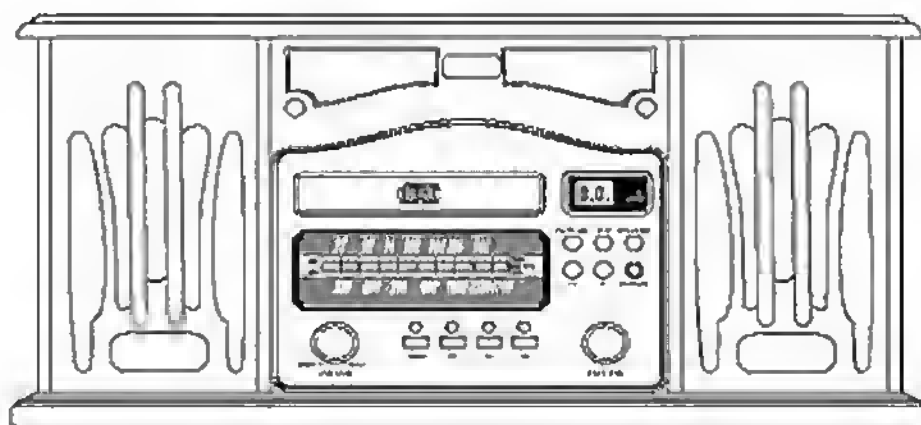




## OPERATION MANUAL



**MODEL : RCD822-B**  
**TURNTABLE AM/FM RADIO**  
**WITH CD AND CASSETTE PLAYER**

## **IMPORTANT SAFETY INSTRUCTIONS FOR AUDIO PRODUCTS - READ CAREFULLY ALL THE FOLLOWING IMPORTANT SAFEGUARDS**

When using electrical products, basic precautions should always be followed including:

**1. Read Instructions** - All the safety and operating instructions should be read before the product is operated.

**2. Retain Instructions** - The safety and operating instructions should be retained for future reference.

**3. Heed Instructions** - All warnings on the product and in the operating instructions should be adhered to.

**4. Follow Instructions** - All operating and user instructions should be followed.

**5. Cleaning** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

**6. Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

**7. Water and Moisture** - Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

**8. Accessories** - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

**9. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.**

**10. Ventilation** - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.



**11. Power Sources** - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

**12. Grounding or Polarization** - This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

**13. Power-Cord Protection** - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

**14. Lightning** - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

**15. Power Lines** - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

**16. Overloading** - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

**17. Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

**18. Servicing** - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

**19. Damage Requiring Service** - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power-supply cord or plug is damaged,
- b. If liquid has spilled, or objects have fallen into the product,
- c. If the product has been exposed to rain or water,
- d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
- e. If the product has been dropped or damaged in any way, and
- f. When the product exhibits a distinct change in performance - this indicates a need for service.

**20. Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

**21. Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

**22. Heat** - The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

## Precautions

### ■ Safety Information

This product has been designed and manufactured according to FDA regulations, title 21, CFR, Chapter 1, sub-chapter J, based on the Radiation Control for Health and Safety Act of 1968, and is classified as a Class 1 laser product. There is hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is not completely confined to the protective housing.

The label required by these regulations is shown as following.

#### CAUTION

- DO NOT REMOVE THE PROTECTIVE HOUSING.
- USE OF CONTROLS AND ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
- IF THIS PRODUCT DEVELOPS TROUBLE, CONTACT A QUALIFIED SERVICE CENTER, AND DO NOT USE THE PRODUCT IN A DEFECTIVE STATE.

### ■ Safety Precautions

#### WARNING:

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

#### CAUTION:

Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposures.

#### CAUTION

##### **RISK OF ELECTRIC SHOCK DO NOT OPEN**

To reduce the risk of electric shock: do not remove cover (or back).  
No user serviceable parts inside. Refer servicing to qualified service personnel.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



#### CAUTION

For Compact Disc Units Only:

INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED, AVOID DIRECT EXPOSURE TO LASER BEAM.

(See markings on the bottom of the unit.)

#### CAUTION:

To prevent electric shock, match wide blade of plug to wide slot, fully insert.

## Before Use

- Choose unit installation location carefully. Avoid placing it in direct sunlight or close to a source of heat. Also avoid locations subject to vibrations and excessive dust, cold or moisture. Keep away from sources that hum, such as transformers or motors.
- Do not open the cabinet as this might result in damage to the circuitry or electrical shock, if a foreign object should get into the set, contact your dealer.
- Be sure not to handle discs with dirty fingers. Never insert a disc that has a crack on the surface.
- When removing the power plug from the wall outlet, always pull directly on the plug, never yank the cord.
- To keep the laser pickup clean, do not touch it, and do not forget to close the disc tray.
- Do not attempt to clean the unit with chemical solvents as this might damage the finish. Use a clean, dry cloth.
- In order to shut off the power to this product completely, unplug the power cord from the wall outlet. Be sure to unplug the unit if you do not intend to use it for an extended period of time, such as a vacation.
- Keep this manual in a safe place for future reference.

### Beware of Condensation

When the player (or a compact disc) is moved from a cold to a warm place or is used after a sudden temperature change, there is the danger of condensation. Water vapor in the air could condense on the mechanism or the laser pickup. If droplets of water form on these parts, correct playback will be impossible because the laser cannot read the information from the disc correctly. To prevent this, if you are going to use the player in a condition where condensation could occur, you should leave the player for 1 or 2 hours after plugging it into an AC outlet depending on the amount of condensation. If this is done, the player will stabilize at the temperature of its surroundings.

## For U.S.A.

### TO THE USER

This equipment has been tested and found to comply with the limits for a Class II digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against interference in a residential area. This device generates and uses radio frequency energy and if not installed and used in accordance with the instructions, it may cause interference to radio or TV reception. If this unit does cause interference with TV or radio reception you can try to correct the interference by one or more of the following measures:

- A) Reorient or relocate the receiving antenna.
  - B) Increase the separation between the equipment and receiver.
  - C) Plug the equipment into a different outlet so that it is not on the same circuit as the receiver.
- If necessary, consult the dealer or an experienced radio/TV technician for additional suggestions.

### CAUTION:

Changes or modifications to this equipment not expressly approved by the manufacturer for compliance could void the users authority to operate this equipment.

## Listening to a Tape or Compact Disc

### ■ Cassette Tape


#### Tape Handling:

Do not store tapes in the following places:

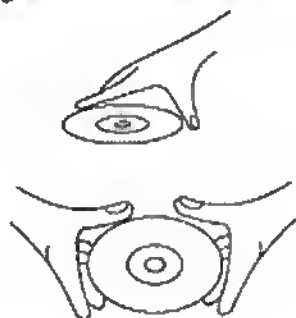
- On top of heaters, exposed to direct sunlight or in any other places with high temperatures.
- Near speakers, on TV sets or amplifiers or where they would be exposed to strong magnetic fields.
- Where humidity is high and in dirty, dusty places.
- Avoid dropping or subjecting cassettes to excessive shocks.
- As C-120 tapes are physically weak and could become entangled in the transport mechanism, do not use them.
- Never use chemicals such as : record sprays, anti-static sprays or fluid, benzene or thinner to clean compact discs. Such chemicals will do irreparable damage to the disc's plastic surface.
- Discs should be returned to their cases after use to avoid serious scratches that could cause the laser pickup to skip.
- Do not expose discs to direct sunlight or high humidity and temperature for extended periods. Long exposure to high temperature can warp the disc.
- Do not stick paper or write anything with a ballpoint pen on the surface of the label side.
- Do not use irregular shaped CD's (octagonal, heart-shape, etc.), all of which can damage the unit.

### ■ Compact Disc

#### Handling the Discs:

This unit has been designed specifically for sound reproduction from compact discs bearing the  mark. No other discs can be used.

- Always place the compact disc in the disc tray with the label facing upward. (Compact discs can be played only on one side).
- To remove a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edge.

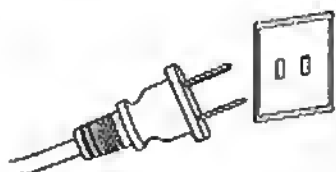


- Fingermarks and dust should be carefully wiped off the disc's recorded surface with a soft cloth(not included).

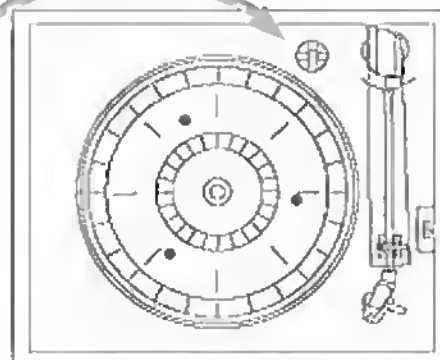
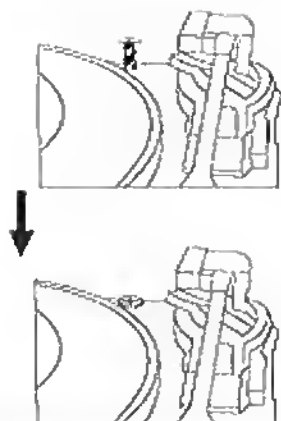


## Preparation for Use

- Connect the AC power cord.



- The screw on the turntable is called "transit screw" which is used to lock down the turntable during transportation for protection and has no adjustment for balancing. It should be turned clockwise all the way down before use.



## Basic Operation

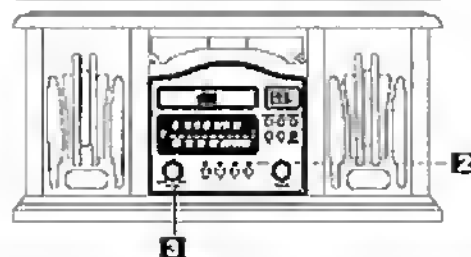
- 1 Power on.

Connect the power plug into the wall outlet.

- 2 Select the source.

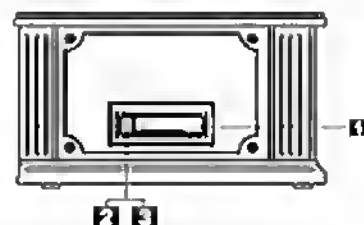


- 3 Adjust the volume.



## Listening to TAPE

- 1 Load Cassette Tape into the unit (located on side of the unit). Playback will automatically begin.
- 2 Press button halfway to Fast Forward the Tape. Press button lightly and playback will resume.
- 3 Press button all the way to end Playback and eject Tape.



## Listening to a Record

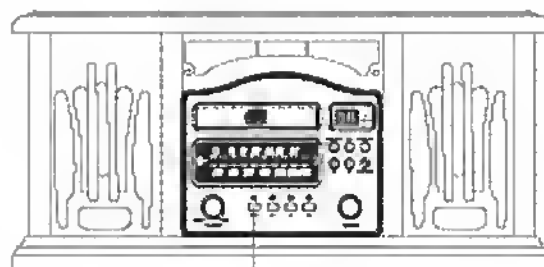
- 1** Press the PHONO button.



- 2** Select player speed.



- 3** Put a record onto the turntable (Use the 45 rpm adaptor provided when playing a single record).



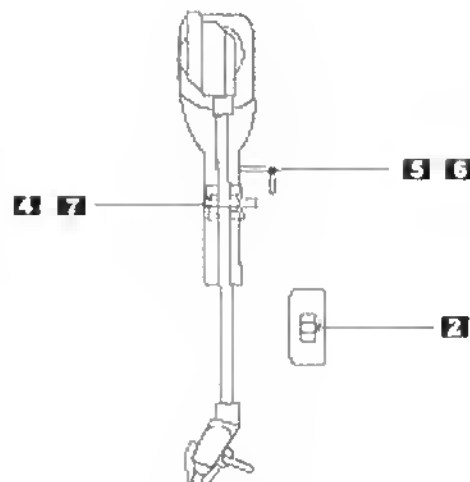
**1**

- 4** Remove the tone arm-rest holder.

- 5** Lift the Que-lever and move the tone arm gently to the desired position over the record.

- 6** Lower the Que-lever slowly.

- 7** Return the tone arm to the tone arm-rest after reaching the end of the record.





**1** Press the CD button.

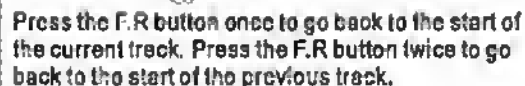


**A** Stopping the CD play.



CD should be placed on the tray with the label side up.

**[➡] Press the F.F button once to go the start of the next track.**



**Fast Reverse (F.R) and Fast Forward (F.F)**

**NOTE:** Do not push both buttons together as this may damage the unit.

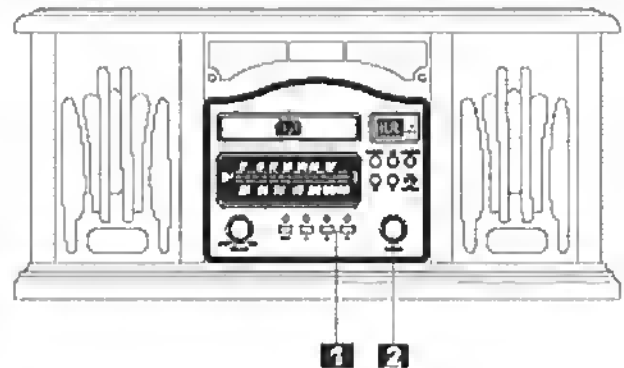
As the unit is tracking quickly, forward or backward you will hear your selection playing at a distorted speed. Simply release the depressed button to continue playing at normal speed at the desired position in the selected track.

## Listening to the Radio


- 1** Press the TUNER button to select the desired band (AM/FM).



- 2** Tune to the desired frequency.

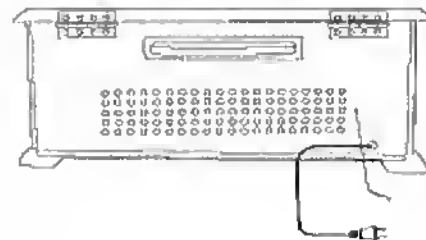


### **A** FM reception

Any strong FM station will cause the FM stereo indicator (FM ST ) light to illuminate. Weaker stations cannot be received in stereo so the light will not illuminate and reception will automatically switch to mono.

### **B** Antenna

For optimal FM reception be sure to stretch the built-in FM antenna wire located at the lower back of the unit and move it around until the station you have tuned in is being received clearly.



## Specifications

### AMPLIFIER section

Output Power.....2.5W + 2.5W  
Frequency Response.....60 to 20,000Hz

### TUNER section

#### FM Section

Frequency Range.....88 to 108 MHz

#### AM Section

Frequency Range.....530 to 1710 KHz

### CD PLAYER section

Frequency Response.....60 to 20,000 Hz +/-4dB  
Signal-to-Noise Ratio.....55dB (IEC-A)

### RECORD PLAYER section

Motor .....DC servo motor  
Drive System.....Belt Drive  
Speeds.....33-1/3rpm, 45rpm, 78rpm  
Wow & Flutter.....less than 0.25% (WTD)  
S/N Ratio ..... More than 50dB  
Cartridge Type.....Ceramic Stereo Cartridge  
Stylus.....402-M208-165  
Output Level.....160 - 380mV (5cm/sec at 1kHz)

### SPEAKER SYSTEM section

Type.....1-way  
Impedance .....8 ohms  
Input Power.....Max. 5W

### GENERAL

Power Requirements.....AC 120 V ~ 60 Hz  
Power consumption.....18 W  
Dimensions (W x H x D)..... 20.5" x 10.8" x 13.6" (approx.)  
Weight.....24.8lbs.(approx.)  
Standard Accessories.....Operating Instruction Booklet  
45 rpm Adaptor/AC cord

## Troubleshooting Guide

In case of trouble with the unit, please look through this chart and see if you can solve the problem by yourself before calling your dealer.

	Problem	Cause	Solution
THE WHOLE UNIT	Power does not come on when the power switch is pressed.	Unit is unplugged.	Connect the unit to the AC power supply.
	No sound comes out of the speakers.	The volume is turned down (to MIN). The input selector does not match the playback source.	Adjust the volume. Re-select the desired input source.
	The sound is noisy.	The unit is too close to a TV set or another similar appliance.	Turn off the TV or other appliance, and relocate the unit.
TAPE DECK	The tape does not move.	The cassette tape is not inserted properly.	Insert the cassette tape correctly.
	No sound from tape.	The tape heads are dirty.	Clean the tape heads.
	The sound is distorted or faint.	The tape heads are dirty.	Clean the tape heads.
TUNER UNIT	Cannot listen to any station, or signal appears weak.	The station is not tuned-in properly. A TV set is being used nearby and is interfering with the radio reception.	Properly tune-in the desired station. Turn-off the interfering TV set.
	The sound is distorted.	The antenna is not oriented properly.	Re-orient the antenna until reception improves.
CD PLAYER	CD stops immediately after starting, or unit pauses or stops during play.	The CD is inserted upside down. The CD is dusty or dirty or there is condensation on the CD.	Insert the CD with the printed side right-side up. Carefully clean and dry the CD.
	No sound.	The CD player is paused.	Press the PLAY/PAUSE button.
	Specific CD is noisy, or playback stops or skips.	The CD is scratched, damaged or warped. The disc is very dirty.	The CD should be changed. Carefully clean the CD.